

# Hardik Prakash

Portfolio: [hardikprakash-dev.vercel.app](#)  
LinkedIn: [linkedin.com/in/hardik-prakash](#)

Email: [hardikprakash.official@gmail.com](mailto:hardikprakash.official@gmail.com)  
GitHub: [github.com/hardikprakash](https://github.com/hardikprakash)  
Mobile: +91-8130841139

## EDUCATION

- **Dr. A.P.J Abdul Kalam Technical University** Lucknow, India  
*B.Tech - Computer Science and Artificial Intelligence; GPA: 7.02* Nov 2021 - July 2025
- **CBSE** Delhi, India  
*Higher Secondary Education (12th Grade); GPA: 9.12* Apr 2020 - Apr 2021
- **CBSE** Delhi, India  
*Secondary Education (10th Grade); GPA: 9.08* Apr 2018 - Apr 2019

## SKILLS SUMMARY

- **Languages:** Python, SQL, C, JavaScript, TypeScript
- **Frameworks:** FastAPI, Flask, Streamlit, React, Next.js, Astro, TailwindCSS
- **Libraries & Tools:** Scikit-learn, Pandas, NumPy, Seaborn, SpaCy, TensorFlow, Hugging Face
- **Platforms:** Docker, Git, Azure, Prisma, NextAuth.js
- **Databases:** PostgreSQL, SQLite

## EXPERIENCE

- **NeGD, Digital India Corporation, MeitY** Feb 2025 – Apr 2025  
*Data Analyst Intern* Delhi, India
  - **User Sentiment Analysis:** Analyzed over 5,000 user reviews from Android/iOS platforms to extract key pain points and sentiment trends, improving UX feedback visibility. Used TF-IDF and BERT embeddings to cluster common issues.
  - **LLM-Driven Text Mining:** Developed a semi-automated text classification pipeline using self-hosted LLMs, NLTK, and Scikit-learn; reduced manual tagging efforts by 60%.
  - **Time-Series Forecasting:** Built PROPHET-based models to forecast user growth across 8+ app categories, informing product strategy for upcoming quarters.
- **Futuresoft (INDIA) Pvt. Ltd.** June 2024 – Jan 2025  
*Software Engineer Intern* Remote
  - **AI-Powered Surveillance System:** Engineered a real-time forest surveillance system using YOLOv8 for object detection and FastAPI for live stream integration, reducing detection latency to under 2s.
  - **Dashboards for Visual Monitoring:** Developed a React + Tailwind CSS dashboard to display surveillance footage, log alerts, and enable interactive exploration of detection logs.
  - **Power Forecasting Models:** Trained Scikit-learn regression models to predict power consumption with 92% accuracy, visualized using Seaborn. Integrated API endpoints for real-time analytics.

## PROJECTS

- **Upskillr – LLM-Powered Career Skill Recommender:** Built an AI assistant that analyzes PDF resumes and recommends personalized skills using a **Retrieval-Augmented Generation (RAG)** pipeline. Extracted structured profile data using LLMs, retrieved relevant job listings from a **ChromaDB** vector store, and generated targeted upskilling suggestions. Processed 15+ resumes in testing.  
**Stack:** FastAPI, Streamlit, ChromaDB, Hugging Face Transformers, PyMuPDF, Azure VMs  
**Links:** [GitHub](#), [Live Demo](#)
- **End-to-End Topic Modeling Pipeline:** Developed a scalable NLP pipeline to uncover latent topics from unstructured text using **LDA** and **BERTopic**. Enabled interactive visualization and analysis through a **Streamlit** interface. Applied on datasets with over 10,000 documents.  
**Stack:** BERTopic, Gensim, Pandas, SpaCy, Streamlit  
**Links:** [GitHub](#), [Live Demo](#)
- **DevTracker – Full-Stack Developer Productivity Platform (WIP):** Building a full-stack app for project tracking and productivity management. Supports **JWT-authenticated** users, project/task management via a **Kanban board**, daily markdown logs, and analytics visualizations. Designed for individual devs and small teams.  
**Stack:** Next.js, NeonDB, Tailwind CSS, JWT
- **Image Classification using CNNs (Intel Image Dataset):** Trained two **CNNs** on Intel's image dataset—one for binary terrain classification and one for full 6-class output. Used **Keras Functional API**, **EarlyStopping**, and custom F1-score callbacks. Achieved 85–92% validation accuracy; models hosted on Hugging Face.  
**Stack:** Keras, TensorFlow, NumPy  
**Links:** [Hugging Face](#)

## CERTIFICATIONS

- **Deep Learning Specialization – Deeplearning.ai:** Neural Networks, CNNs, Sequence Models, Hyperparameter Tuning, Structuring ML Projects
- **Microsoft Certified:** Azure Fundamentals, Azure Data Fundamentals

## INTERESTS

Self-hosting tech, Exploring LLMs, Offline-first tools, Music composition